

SWAYAM YADAV

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EDUCATION

Kalinga Institute of Industrial Technology, Bhubaneswar, India

October 2021 - Present

Bachelor of Technology in Computer Science & Engineering

CGPA: 6.79

St. Joseph College, Bhalwari, Nepal

October 2018 - April 2020

Senior Secondary School (12th)

Percentage: 75%

PROJECTS

Smart Door Lock Using Face Recognition System

[GitHub](#)

- Developed a smart door lock system using facial recognition with Python and OpenCV, gaining practical experience with image processing and model training using the LBPH classifier.
- Designed a Tinkercad simulation to understand the integration of facial recognition technology with Arduino, applying key concepts in a simulated environment.
- Enhanced understanding of security system development and hardware-software interaction through hands-on application and project execution.

American Sign Language Detection System

[GitHub](#)

- Implemented an ASL detection system utilizing Python, Random Forest Classifier, and OpenCV for gesture recognition, and MediaPipe for precise hand tracking, gaining foundational knowledge in computer vision and machine learning.
- Serialized the trained model using Pickle for efficient deployment, deepening understanding of real-time data processing and model deployment techniques.
- Enhanced skills in applying machine learning algorithms to solve real-world problems, focusing on gesture recognition and real-time processing.

House Price Prediction Regression Project

[Github](#)

- Created a machine learning model for predicting house prices using Python and scikit-learn, engaging in comprehensive data preprocessing tasks such as handling missing values, scaling features, and encoding categorical variables to improve model input quality.
- Trained and optimized multiple regression models, including Linear Regression, Random Forest, and Gradient Boosting, through cross-validation and hyperparameter tuning, gaining practical insights into model evaluation and selection.
- Applied the trained models to predict housing prices, achieving a deeper understanding of regression analysis and model accuracy assessment, enhancing the ability to apply machine learning techniques to real-world scenarios.

SKILLS

Programming Languages: Python

Cybersecurity Tools:: SIEM Tools, Kali Linux, OSINT Tools, Reconnaissance Tools

Technologies: OpenCV, MediaPipe, Scikit-learn, Matplotlib

Security Knowledge: Threat Management, Incident Response, Security Frameworks and Control

Academic Background: Cryptography, Data Analytics, Internet of things, Data Structures and Algorithms, Object Oriented Programming, Database Management System

CERTIFICATIONS

Python for Everybody Specialization (*Coursera*)

Jan 2024 - Mar 2024

Google Cybersecurity Professional Certificate (*Coursera*)

May 2024 - July 2024

Programming Fundamentals using Python - Part 1 (*Infosys*)

Aug 2024 - Aug 2024

Google IT Automation with Python Professional Certificate (*Coursera*)

May 2024 - Present

Ethical Hacker (*Cisco Networking Academy*)

May 2024 - Present

EXTRACURRICULAR ACTIVITIES

Active Member of Obstruction Dance Crew, Nepal

2018 – Present

contribute to choreography and performance planning.

Lead Member of KORUS Individual Dance Crew, KIIT University

2022 – Present

lead performances and coordinate team activities.

Founding Member of Binary Boppers Dance Crew, KIIT University

2022

established the group, instructed dance and organized events.